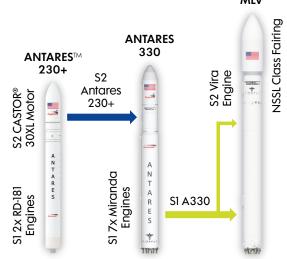


MEDIUM LAUNCH VEHICLE

Firefly Aerospace and Northrop Grumman are co-developing a new medium launch vehicle (MLV) that combines the best flight-proven technologies, systems, and mission experience from both companies.

KEY BENEFITS

- ✓ Fills a void in the underserved medium-lift market.
- Supports commercial, civil, national security, and international launch markets.
- ✓ Delivers to customers' preferred orbits with competitive pricing.
- ✓ Lower cost and increased performance.
- ✓ Provides greater launch schedule availability from Wallops Island.



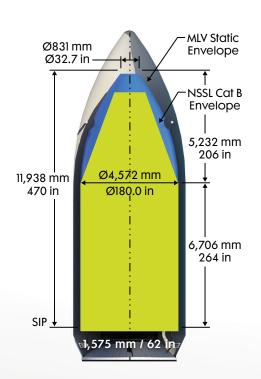
MLV is an evolutionary successor to the Antares launch vehicle, offering a significant leap in power, performance, and payload capacity.





BUILT ON SUCCESS OF ANTARES AND ALPHA





PAYLOAD ACCOMMODATIONS

FAIRING DIAMETER 5.4 m outer diameter
ENVELOPE DIAMETER 4,572 mm/180 in
ENVELOPE HEIGHT 11,938 mm/470 in
INTERFACES Up to 4,000 mm/157 in
STANDARD 1,575 mm, 2,624 mm

MLV offers a 5-meter class payload fairing that can be customized based on customer needs.

PAYLOAD PERFORMANCE

 LEO, 200 KM
 16,300 kg

 GTO
 3,200 kg

 TLI
 2,300 kg

ARCHITECTURE

VEHICLE LENGTH 55.7 m / 182.7 ft

VEHICLE STAGES 2

PROPULSION

PROPELLANT Liquid Oxygen / RP-1

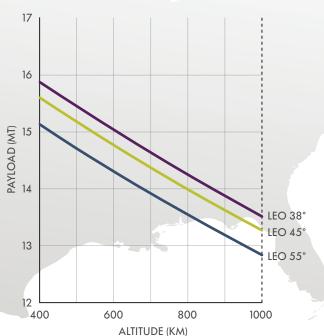
PROPELLANT FEED Turbopump
STAGE 1 ENGINES 7x Miranda

STAGE 1 THRUST 7,161 kN / 1,610,000 lbf (vac)

STAGE 2 ENGINE 1x Vira

STAGE 2 THRUST 890 kN / 200,000 lbf (vac)

WALLOPS LAUNCH PERFORMANCE



POINTS OF CONTACT

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